



## Black Hawk College and NIU CEET Transfer Guidelines for B.S. Degree in Industrial and Systems Engineering

### The 2+2 Plan for Community College Students

The **Department of Industrial and Systems Engineering** welcomes transfer students from Illinois community colleges. Students find it easy to continue their studies at NIU if they plan well. Therefore, following the course guidelines in this brochure while completing an Associate of Science (AS) Degree is highly recommended [1]. Students should always work closely with their community college advisor.

### Courses at Black Hawk College

Courses at Black Hawk College		Equivalent courses at NIU
*SPEC 101	Principles of Speech Communication	COMS 100
**ENG 101	Composition I	ENGL 103
**ENG 102	Composition II	ENGL 203
***ECON 222 OR ***ECON 221	Principles of Micro Economics OR Principles of Macro Economics	ECON 260 OR ECON 261
***PSYC 101	Introduction to Psychology	PSYC 102
CHEM 101	General Chemistry I	CHEM 210 and CHEM 212
CS 121+ CS 225	Introduction to Computer Science	CSCI 240; see CSCI Department for adjustment
MATH 124	Calculus I w/ Analytic Geometry	MATH 229
MATH 225	Calculus II w/ Analytic Geometry	MATH 230
MATH 226	Calculus III w/ Analytic Geometry	MATH 232
MATH 235	Differential Equations	MATH 336
PHYS 201	General Physics	PHYS 253
PHYS 202	General Physics	PHYS 273
GE 101	Engineering Graphics and Geometry	MEE 270
GE 201	Analytic Mechanics Statics	MEE 210
GE 202	Analytic Mechanics Dynamics	MEE 211
ENGT 163	Fundamentals of AC Power	TECH 175 and TECH 175A

\*Satisfies NIU Foundational Studies Oral Communication Requirement.

\*\*Satisfies NIU Foundational Studies Writing Requirement.

\*\*\*Satisfies NIU Society and Culture Knowledge Domain (Gen Ed) Requirement.

[1] Only A.A. and A.S. degrees satisfy NIU's general education requirements.



NORTHERN ILLINOIS UNIVERSITY

## College of Engineering and Engineering Technology

### General Education Requirements

NIU's College of Engineering and Engineering Technology no longer requires special sequences in Social Sciences and Humanities. Therefore, students only need to satisfy NIU's general education requirements. When choosing general education ("knowledge domain") courses, please consult with your advisor, verify general education requirements in the NIU Undergraduate Catalog, and check the NIU Community College Articulation Tables for transferability. Students are also required to fulfill a Human Diversity requirement, which may be fulfilled by a knowledge domain course.

### Courses at NIU

Remaining classes to be taken at NIU's College of Engineering and Engineering Technology to earn a Bachelor of Science Degree in **Industrial and Systems Engineering**:

UEET 101/301	An Introduction to Engineering
ISYE 220	Engineering Economy
ISYE 250	Introduction to Lean Systems Engineering
ISYE 310	Work Measurement and Work Design
ISYE 335	Probability and Statistics for Engineers
ISYE 350	Principles of Manufacturing Processes
ISYE 370	Operations Research: Deterministic Models
ISYE 371	Operations Research: Probabilistic Models
ISYE 410	Human Factors Engineering
ISYE 430	Quality Control
ISYE 435	Experimental Design for Engineering
ISYE 440	Production Planning and Control
ISYE 450	Lean Manufacturing Systems
ISYE 460	Facilities Planning and Design
ISYE 480	Simulation Modeling and Analysis
ISYE 492	Industrial and Systems Engineering Senior Design Project Proposal
ISYE 495	Senior Design Project

### 15-18 semester hours of Technical Electives

In addition to the courses listed above, students are required to complete 15-18 hours of electives within CEET. Specific electives will be reviewed with student's assigned faculty advisor and academic catalog.

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### For More Information

Department of Industrial and Systems Engineering  
CEET EB 230  
Northern Illinois University



NORTHERN ILLINOIS UNIVERSITY

## College of Engineering and Engineering Technology

DeKalb, IL 60115-2854  
(815) 753-1282

Visit our [Home Page](#). This site provides information on course descriptions, course syllabi, lab tours, faculty profiles, student organizations, suggested 4-year degree plan, other useful links, etc.

**For undergraduate application materials, contact:**

Office of Admissions  
Northern Illinois University  
DeKalb, IL 60115-2857  
[admissions@niu.edu](mailto:admissions@niu.edu)

Apply online at: <http://www.admissions.niu.edu/admissions/>

**For more information on transfer programs at NIU:**

Call **(815) 753-0446** or **(800) 892-3050 (toll free)** and ask to speak with a Transfer Counselor.

**For more information about the Engineering Transfer Program at Black Hawk College,** contact: Cathryn Lass, Articulation Transfer Coordinator, at (309) 796-5474 or [lassc@bhc.edu](mailto:lassc@bhc.edu)

**Disclaimer:** Although NIU attempts to accommodate the course requests of all students, some course offerings may be limited by financial, space, and staffing considerations, or may otherwise be unavailable. Nothing in this brochure may be construed to promise or guarantee registration in any course or course of study (whether required or elective), nor may anything be construed to promise or guarantee the completion of an academic program within a specific length of time. All degree requirements are subject to the provisions and notices in the Undergraduate Catalog. Information in this brochure is valid through August 2018.

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